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Result # 1   Relevance: ⦾⦾⦾⦾⦾

Asynchronous Progressive Transaction Recovery Protocol for Distribu Systems

1987-05-01   IPCOM000039277D   English

This invention describes an asynchronous transaction recovery protocol that coordinate communications between different subsystems with execution in distributed DB/DC sys the increasing requirements for high availability, online transaction processing systems

Result # 2   Relevance: ⦾⦾⦾⦾⦾

Early Commit Scheme for Multi-System Data Sharing Using Write Com

1987-11-01   IPCOM000040356D   English

This invention is a method for early commit transactions in a multi-system data-sharing that allows for the early release of resources used by the transaction and also the optin deferred write and notification-on-conflict. Database integrity is ...

Result # 3   Relevance: ⦾⦾⦾⦾⦾

A NORMAL FORM FOR ABSTRACT SYNTAX

1978-07-31   IPCOM000152045D   English

A NORMAL FORM FOR ABSTRACT SYNTAX by John Miles Smith UUCS 78 106 July 1978 Smith University of Utah Abstract McCarthyls abstract syntax is the most widely used n for specifying data structure. It is embedded in various forms in mst ...

Result # 4   Relevance: ⦾⦾⦾⦾

Macro/ Cell Compiler Custom Realization for Disjoint or Integrated Lo Physical Design Databases

1991-09-01   IPCOM000121681D   English

Many of today's silicon compilers (cell or macro) are based on common design databas both the logic and physical design data are shared. The advantages of utilizing commor are many, the most significant being the generation of physical data, i.e., that ...

Result # 5   Relevance: ⦾⦾⦾

Application Service Portal for Multi-Company, Multi-Service Offerings

2001-04-14   IPCOM000013993D   English

Disclosed is a system to improve supply chain (trading partner) communications and da affordable pricing for all companies in a trading environment. The internet has provided capability to link trading partners using a common standard for delivery. In ...

Result # 6   Relevance: ⦾⦾

Sigterm Signal Handler for the OS/2 Database Manager

1991-12-01   IPCOM000122610D   English

A method is described which will insure that the OS/2* Database Manager (DBM) is in a when a program terminate signal is generated by an application using the DBM. Backgr

Result # 7   Relevance: ⦾⦾

Extensions to RIP to Support Demand Circuits (RFC1582)

1994-02-01   IPCOM000002416D   English

Running routing protocols on connection oriented Public Data Networks, for example X.
switched networks or ISDN, can be expensive if the standard form of periodic broadcas
information is adhered to. The high cost arises because a connection has to ...

Result # 8   Relevance: ⬡⬡

NOTES ON DISTRIBUTED DATABASES

1979-07-14   IPCOM000149869D   English

B. G. Lindsay P. G. Selinger C. Galtieri J. N. Gray R. A. Lorie T. G. Price F. Putzolu B. W
Research Laboratory San Jose, California 95193 ABSTRACT: This paper is a set of note:
subjects in singlesite and distributed database management ...

Result # 9   Relevance: ⬡⬡

Improved Recovery from Partial Page Writes of Data Pages

1993-05-01   IPCOM000104589D   English

Disclosed is a method to allow database crash recovery after a partial page write to a d
to a power failure, for example) when the page has not been reorganized for data comp

---

Result # 10   Relevance: ⬡⬡

Method to Obtain Status Information on a Logic Model Under Simulati

1989-12-01   . IPCOM000037220D   English

This technique of collecting simulation data allows accurate progress and current status
obtained. The data is the result of software simulation on logic that is modeled exactly
This information is required to accurately project the quality of ...

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Search query: database integrity

Published Before: 7-7-2003 (Original publication date)

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Result # 11   Relevance: ◐◑.

Ignore Code Page Option for Relational Database Import Utility
1989-09-01   IPCOM000036154D   English

Disclosed is a semantic definition of a relational database import utility option which pr
type integrity while allowing import of character data despite code page inequalities.

Result # 12   Relevance: ◐◑

What Can Be Automated?: The Computer Science and Engineering Re: Study (COSERS)
1980-01-01   IPCOM000128748D   English

It is truly difficult to capture with a single question the essence of research in a diverse
active area of science and technology, but the query in the title comes very close. This
first posed by the late Professor George Forsythe of Stanford ...

Result # 13   Relevance: ◐◑

Data-Base Systems
1978-09-01   IPCOM000131235D   English

Data-base management is already a mature technology. The 80's will see improvement
usability, integrity, and efficiency. Early in the history of computer systems, business re
computers could lower the cost and improve the accuracy of business data ...

Result # 14   Relevance: ◐◑

AUTOMATED DEDUCTION IN DATABASES WITH INCOMPLETE INFORM
1986-03-31   IPCOM000150375D   English

Department of Computer ScienceHill Center for the Mathematical Sciences Busch Camp
University New Brunswick, NJ (38903 I~esearch supported by NSF grant DCR 85-0414(
from Institute of Computer Science, Polish Academy of Sciences, Warsaw 00-901, ...

Result # 15   Relevance: ◐◑

THE CODASYL DATABASE MANAGEMENT SYSTEMS
1976-03-30   IPCOM000148711D   English

RJ 1755 (#25563) THE CODASYL DATABASE MANAGEMENT SYSTEMS March 30, 1976 (
Science Robert W, Taylor IBM Research Laboratory San Jose, California 95193Randall L
FrankComputer Science DepartmentUniversity of UtahSalt Lake City, Utah 84112ABSTF
paper ...

Result # 16   Relevance: ◐◑

A RELATIONAL DATABASE MACHINE ANALYSIS AND DESIGN
1983-04-30   IPCOM000151636D   English

t THE UNTVERSIm OF MICHIGAN COMPUTING RESEARCH LABORATORY~ A RELATIONA
PdACHINE ANALYSIS AND DZSIGN Under the Direction of Professor Keki B. Irani Room
Engineering Edding Ann Arbor, Michigan 48109 USATel: (313) 763-8000 I '~hrs ...

Result # 17   Relevance: ◐◑

ON DATABASE MANAGEMENT SYSTEM ARCHITECTURE

1899-12-30   IPCOM000149076D   English

ON DW.TABASE MANAGEMENT SVSTHSM ARCHITECTURE Michael HammerMIT Laborati
Computcr Science 545 Technology Square Cambridge, MA 021139 Dennis McLeodComp
Depar:rnetat U nlversity of Souithergl Ca lafornia Los Angeles, CA 90007 ABSTRACT: D

Result # 18   Relevance: ⬡⬡

A SURVEY OF DEVELOPMENTS IN DISTRIBUTED DATA BASE MANAGEN SYSTEMS

1978-02-01   IPCOM000131271D   English

Distributed data base classification Development of a completely general distributed da
management system must evolve through several less complex forms (see table). It be
base management systems for single, general-purpose computers, the development of

---

Result # 19   Relevance: ⬡⬡

Internet Registry IP Allocation Guidelines (RFC2050)

1996-11-01   IPCOM000002601D   English

This document describes the registry system for the distribution of globally unique Inte
space and registry operations. Particularly this document describes the rules and guidel
the distribution of this address space.

Result # 20   Relevance: ⬡⬡

The Deadlock Problem: An Overview

1980-09-01   IPCOM000131458D   English

*Now at Bell Northern Research, Ottawa. Deadlock is a constant threat in terminal-orie
This comprehensive study of deadlock-handling techniques introduces a method for on-
in distributed data bases. Modern multiprogramming systems are ...

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Result # 21   Relevance: ◐◐

Two-Level Locking Protocol to Reduce Intersystem Communications

1990-08-01   IPCOM000101674D   English

A technique is described whereby a two-level locking protocol provides a means of lock unlocking requests for data among computer systems. The two-level protocol provides response time and reduces the communications overhead between multiple systems.

Result # 22   Relevance: ◐◐

General Two-Level Locking Protocol for Multiple Computer Systems

1990-08-01   IPCOM000101670D   English

A technique is described whereby a general two-level locking protocol provides a mean: and unlocking requests for data among computer systems. The two-level protocol provi of reducing the average lock response time, as compared to a single-level ...

Result # 23   Relevance: ◐◐

RELATIVE KNOWLEDGE IN A DISTRIBUTED DATABASE

1986-10-31   IPCOM000150384D   English

Tomasz Imielinskil Department of Computer Science Rutgers University Let DB be a dal ul, ..., un be a collection of users each having at his or her disposal a query sublanguag these users knows only as much as he can i learn from the ...

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Oracle <u>Database Integrity</u> and the Human Experience
Database integrity is the thread that holds **database** objects together to satisfy business
objectives and rules. It is unfortunate that data **integrity** ...
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database := /var/lib/afick/afick: define the path to **database**; All= a+b+c+d+g+i+m+**md5**+n+p+u+s: defines the alias "All", from base attributes (could be done ...
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Tripwire is a wonderful file **integrity**-checking tool originally written by Gene Spafford and
Gene Kim of Purdue University. Tripwire generates **MD5** hashes of ...
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Due to the sensitivity of the operations being performed by the **md5** programs ... the Solaris
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National Vulnerability **Database** - SecurityLab
CVE-**2002**-0703. An interaction between the Perl **MD5** module ... which could prevent a
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· package net.wastl.webmail.misc; /* * $Header: /cvsroot/jwebmail/jwebmail-0.8/
src/net/wastl/webmail/misc/**MD5**.java,v 1.1.1.1 **2002**/10/12 22:03:24 wastl Exp ...
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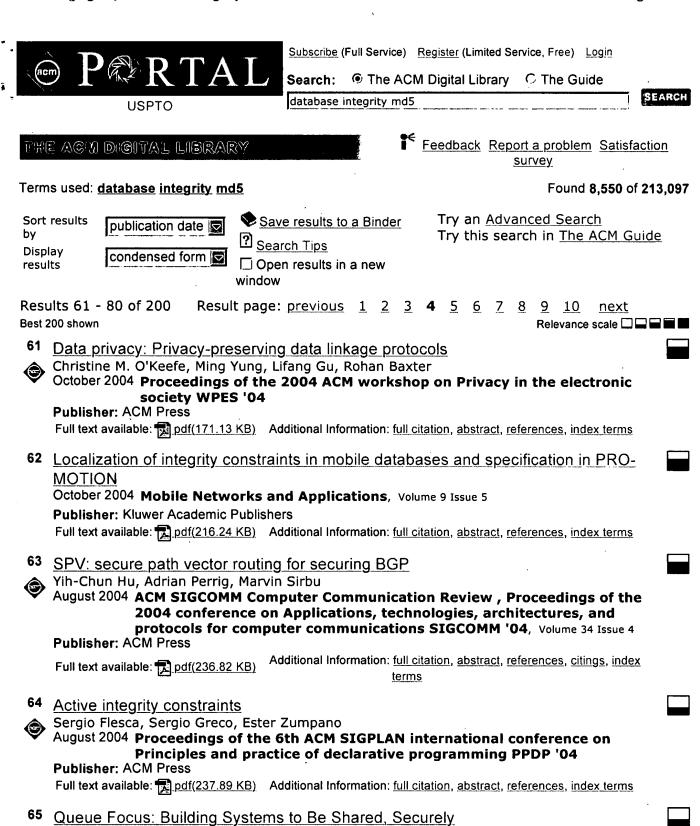Cached - Similar pages

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68 Short paper: Beware of BGP attacks
Ola Nordström, Constantinos Dovrolis
April 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2
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69 Agents, interactions, mobility, and systems (AIMS): Using mobile agents as roaming security guards to test and improve security of hosts and networks
Marco Carvalho, Thomas Cowin, Niranjan Suri, Maggie Breedy, Kenneth Ford
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71 Use of nested certificates for efficient, dynamic, and trust preserving public key infrastructure
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Gabriel Montenegro, Claude Castelluccia
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74 An abstract interpretation-based framework for software watermarking

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Cheng Peng, Robert H. Deng, Yongdong Wu, Weizhong Shao

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Pino Persiano, Ivan Visconti

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Andrea Calì, Domenico Lembo, Riccardo Rosati
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86 Description logics for semantic query optimization in object-oriented database systems
Domenico Beneventano, Sonia Bergamaschi, Claudio Sartori
March 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(406.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

87 Discussion paper: privacy-preserving distributed queries for a clinical case research network
Gunther Schadow, Shaun J. Grannis, Clement J. McDonald
December 2002 **Proceedings of the IEEE international conference on Privacy, security and data mining - Volume 14 CRPIT '14**
Publisher: Australian Computer Society, Inc.

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88 Database privacy: balancing confidentiality, integrity and availability
Martin S. Olivier
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(122.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

89 Session 4: Web service applications: Authenticating distributed data using Web services and XML signatures
Daniel J. Polivy, Roberto Tamassia
November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**
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Soroush Sedaghat, Josef Pieprzyk, Ehsan Vossough
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Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz
March 2002 **Wireless Networks**, Volume 8 Issue 2/3
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Massimo Bernaschi, Emanuele Gabrielli, Luigi V. Mancini
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Publisher: ACM Press

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99 <u>Paranoid penguin: Verifying filesystem integrity with CVS</u>   ▬
Michael Rash
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Publisher: Specialized Systems Consultants, Inc.
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100   ▬
<u>Semantic integrity support in SQL:1999 and commercial (object-)relational database</u>

management systems
Can Türker, Michael Gertz
December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: ⬛.pdf(345.55 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>
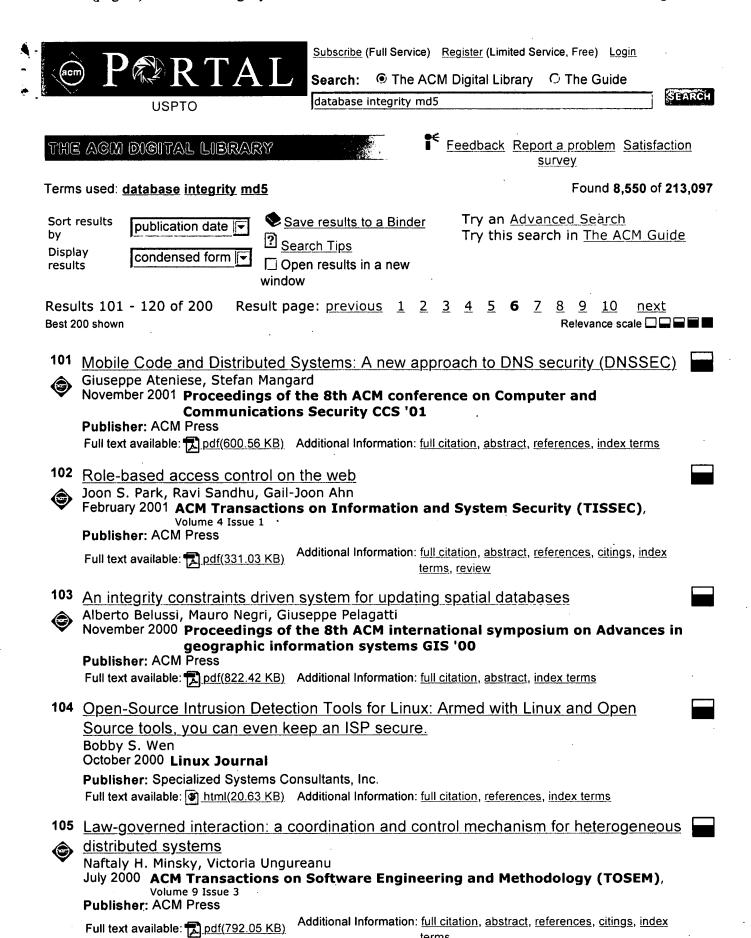
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Joon S. Park, Ravi Sandhu, Gail-Joon Ahn
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103 An integrity constraints driven system for updating spatial databases   ▭
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Bobby S. Wen
October 2000 **Linux Journal**
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105 Law-governed interaction: a coordination and control mechanism for heterogeneous   ▭
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Naftaly H. Minsky, Victoria Ungureanu
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106 An architecture for distributed OASIS services

John A. Hine, Walt Yao, Jean Bacon, Ken Moody

April 2000 **IFIP/ACM International Conference on Distributed systems platforms Middleware '00**

Publisher: Springer-Verlag New York, Inc.

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Marc Lacoste

April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2

Publisher: ACM Press

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Beverly Schwartz, Alden W. Jackson, W. Timothy Strayer, Wenyi Zhou, R. Dennis Rockwell, Craig Partridge

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109 Using the Red Hat Package Manager

Kirk Rafferty

January 2000 **Linux Journal**

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Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad

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111 Separating key management from file system security

David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel

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112 Improving database design through the analysis of relationships

Debabrata Dey, Veda C. Storey, Terence M. Barron

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Full text available: pdf(268.35 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

113 Spatial data integrity constraints in object oriented geographic data modeling

Karla A. V. Borges, Alberto H. F. Laender, Clodoveu A. Davis

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114 A public-key based secure mobile IP
John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro
Castineyra, Stephen Kent
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(255.65 KB)   Additional Information: full citation, references, citings, index terms

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Steven E. Czerwinski, Ben Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz
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Yuan Chen, Jan Edler, Andrew Goldberg, Allan Gottlieb, Sumeet Sobti, Peter Yianilos
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John Lach, William H. Mangione-Smith, Miodrag Potkonjak
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118 Consistent query answers in inconsistent databases
Marcelo Arenas, Leopoldo Bertossi, Jan Chomicki
May 1999 **Proceedings of the eighteenth ACM SIGMOD-SIGACT-SIGART symposium
on Principles of database systems PODS '99**
Publisher: ACM Press
Full text available: pdf(1.26 MB)   Additional Information: full citation, references, citings, index terms

119 An integrated information system on the Web for catchment management
Kenny Taylor, Mark Cameron, Jason Haines
November 1998 **Proceedings of the 6th ACM international symposium on Advances in
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Publisher: ACM Press
Full text available: pdf(730.11 KB)   Additional Information: full citation, references, citings, index terms

120 The design, implementation and operation of an email pseudonym server
David Mazières, M. Frans Kaashoek
November 1998 **Proceedings of the 5th ACM conference on Computer and
communications security CCS '98**
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81 A low-bandwidth network file system   ▬
Athicha Muthitacharoen, Benjie Chen, David Mazières
October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5
Publisher: ACM Press

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Users rarely consider running network file systems over slow or wide-area networks, as the performance would be unacceptable and the bandwidth consumption too high. Nonetheless, efficient remote file access would often be desirable over such networks--- particularly when high latency makes remote login sessions unresponsive. Rather than run interactive programs such as editors remotely, users could run the programs locally and manipulate remote files through the file system. To do so, however, wo ...

82 PicoDBMS: Scaling down database techniques for the smartcard   ·   ▬
Philippe Pucheral, Luc Bouganim, Patrick Valduriez, Christophe Bobineau
September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3
Publisher: Springer-Verlag New York, Inc.
Full text available: 🅰 pdf(259.03 KB)   Additional Information: full citation, abstract, citings, index terms

Smartcards are the most secure portable computing device today. They have been used successfully in applications involving money, and proprietary and personal data (such as banking, healthcare, insurance, etc.). As smartcards get more powerful (with 32-bit CPU and more than 1 MB of stable memory in the next versions) and become multi-application, the need for database management arises. However, smartcards have severe hardware limitations (very slow write, very little RAM, constrained stable mem ...

Keywords: Atomicity, Durability, Execution model, PicoDBMS, Query optimization, Smartcard applications, Storage model

83 Computing curricula 2001   ■
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: 🅰 pdf(613.63 KB)   Additional Information: full citation, references, citings, index terms

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84 Integrated multimedia medical data agent in E-health

Jinman Kim, David Dagan Feng, Tom Weidong Cai, Stefan Eberl

May 2001 **Proceedings of the Pan-Sydney area workshop on Visual information processing - Volume 11 VIP '01**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(312.15 KB)   Additional Information: full citation, abstract, references, index terms

E-Health is producing a great impact in the field of information distribution of the health services to the intra-hospital and the public. Previous research have addressed the development of system architectures in the aim of integrating the distributed and heterogeneous medical information systems. The easing of difficulties in the sharing and management of medical data and the timely accessibility to these data is a critical need for health care providers. We have proposed a client-server agen ...

Keywords: E-health, XML, XSLT, multimedia database, system interoperability

85 Context-based prefetch – an optimization for implementing objects on relations

Philip A. Bernstein, Shankar Pal, David Shutt

December 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(142.24 KB)   Additional Information: full citation, abstract, index terms

When implementing persistent objects on a relational database, a major performance issue is prefetching data to minimize the number of round-trips to the database. This is especially hard with navigational applications, since future accesses are unpredictable. We propose the use of the context in which an object is loaded as a predictor of future accesses, where a context can be a stored collection of relationships, a query result, or a complex object. When an object O's state is loaded, similar ...

Keywords: Caching, Object-oriented database, Object-relational mapping, Prefetch

86 UTIS (Urban Transportation Information System) a geo-spatial transport database

Adam Etches, David Parker, Sean Ince, Philip James

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems GIS '00**

Publisher: ACM Press

Full text available: pdf(677.50 KB)   Additional Information: full citation, abstract, index terms

This paper proposes the design of an extended DBMS as required for integrated management of urban transportation systems. We introduce an extended `lowest common denominator' database model that supports a wide and varied range of urban transport tasks, which include management, simulation and planning. This paper is the result of research being carried out and is formulated by database expertise and transport knowledge. There has been a full analysis of transport data objects and attributes. ...

Keywords: temporal spatial informaton, transport system

87 The implementation and performance of compressed databases

Till Westmann, Donald Kossmann, Sven Helmer, Guido Moerkotte

September 2000 **ACM SIGMOD Record**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(129.75 KB)   Additional Information: full citation, abstract, citings, index terms

> In this paper, we show how compression can be integrated into a relational database system. Specifically, we describe how the storage manager, the query execution engine, and the query optimizer of a database system can be extended to deal with compressed data. Our main result is that compression can significantly improve the response time of queries if very *light-weight* compression techniques are used. We will present such light-weight compression techniques and give the results of runni ...

88 Reflection as a mechanism for software integrity verification   ■

Diomidis Spinellis

February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1

Publisher: ACM Press
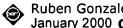
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> The integrity verification of a device's controlling software is an important aspect of many emerging information appliances. We propose the use of reflection, whereby the software is able to examine its own operation, in conjunction with cryptographic hashes as a basis for developing a suitable software verification protocol. For more demanding applications meta-reflective techniques can be used to thwart attacks based on device emulation strategies. We demonstrate how our approach can be ...

Keywords: cryptographic hash function, embedded device, message digest

89 Academic directions of multimedia education   ■

Ruben Gonzalez, Greg Cranitch, Jun Jo

January 2000 **Communications of the ACM**, Volume 43 Issue 1

Publisher: ACM Press

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                     html(33.68 KB)   Additional Information: full citation, references, citings, index terms

90 The transport layer: tutorial and survey   ■

Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(261.78 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

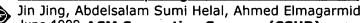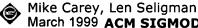**91** Chorochronos: a research network for spatiotemporal database systems   ■

Andrew Frank, Stephane Grumbach, Ralf Hartmut Güting, Christian S. Jensen, Manolis Koubarakis, Nikos Lorentzos, Yannis Manolopoulos, Enrico Nardelli, Barbara Pernici, Hans-Jörg Schek, Michel Scholl, Timos Sellis, Babis Theodoulidis, Peter Widmayer
September 1999 **ACM SIGMOD Record**, Volume 28 Issue 3
Publisher: ACM Press
Full text available: .pdf(1.09 MB)   Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

92 <u>Client-server computing in mobile environments</u>
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: .pdf(233.31 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

93 <u>The Cornell Jaguar project: adding mobility to PREDATOR</u>
Phillippe Bonnet, Kyle Buza, Zhiyuan Chan, Victor Cheng, Randolph Chung, Takako Hickey, Ryan Kennedy, Daniel Mahashin, Tobias Mayr, Ivan Oprencak, Praveen Seshadri, Hubert Siu
June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: .pdf(234.71 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The Cornell Jaguar Project is exploring a variety of issues related to mobility and query processing. One broad theme is to break down the traditional client and server boundaries, leading to ubiquitous query processing. Another theme is to extend database and query processing techniques to small-scale and mobile devices. The project builds on and extends the Cornell PREDATOR database engine.

Keywords: mobile computing, ubiquitous query processing

94 <u>NSF workshop on industrial/academic cooperation in database systems</u>
Mike Carey, Len Seligman
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: .pdf(1.96 MB)   Additional Information: <u>full citation</u>, <u>index terms</u>

95 <u>Data warehousing in an integrated health system: building the business case</u>
Edward F. Ewen, Carl E. Medsker, Laura E. Dusterhoft
November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP DOLAP '98**

Publisher: ACM Press

Full text available: 📄.pdf(870.47 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: DSS, IDS, IHS, OLAP, data warehouse, decision support system, healthcare, integrated delivery system, integrated health system, on-line analytical processing

96 <u>Managing performance requirements for information systems</u>   ◼

Brian A. Nixon

October 1998 **Proceedings of the 1st international workshop on Software and performance WOSP '98**

Publisher: ACM Press

Full text available: 📄.pdf(2.06 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

97 <u>The DataIndex: a structure for smaller, faster data warehouses</u>   ◼

Anindya Datta, Igor Viguier

September 1998 **ACM SIGMIS Database**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: 📄.pdf(879.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

In this paper we present DataIndexes, a family of design strategies for data warehouses to support OnLine Analytical Processing (OLAP). As the name implies, DataIndexes are both a storage structure for the warehoused relational data and an indexing scheme to provide fast access to that data. We present two simple DataIndexes: the Basic DataIndex (BDI), which can be used for any attribute and the Join DataIndex (JDI), which is used for foreign-key attributes. Either structure can be shown to sign ...

98 <u>Database research at Columbia University</u>   ◼

Shih-Fu Chang, Luis Gravano, Gail E. Kaiser, Kenneth A. Ross, Salvatore J. Stolfo

September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: 📄.pdf(659.46 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

99 <u>Efficient distributed backup with delta compression</u>   ◼

Randal C. Burns, Darrell D. E. Long

November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems IOPADS '97**

Publisher: ACM Press

Full text available: 📄.pdf(1.37 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

100 <u>Fast detection of communication patterns in distributed executions</u>   ◼

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: 📄.pdf(4.21 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the

execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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61 Database & data management: Digital asset management using a native XML database implementation   ▬
Shalaka Natu, John Mendonca
October 2003 **Proceedings of the 4th conference on Information technology curriculum CITC4 '03**
Publisher: ACM Press
Full text available: 📄 pdf(196.63 KB)   Additional Information: full citation, abstract, references, index terms

Digital Asset Management (DAM), the management of digital content so that it can be cataloged, searched and re-purposed, is extremely challenging for organizations that rely on image handling and expect to gain business value from these assets. Metadata plays a crucial role in their management, and XML, with its inherent support for structural representation, is an ideal technology for this. This paper analyzes the capabilities of a native XML database solution via the development of a "proof of ...

Keywords: DAM, XML database, digital asset management, digital images

62 Research track: Inverted matrix: efficient discovery of frequent items in large datasets ▬ in the context of interactive mining
Mohammad El-Hajj, Osmar R. Zaïane
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**
Publisher: ACM Press
Full text available: 📄 pdf(198.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

Existing association rule mining algorithms suffer from many problems when mining massive transactional datasets. One major problem is the high memory dependency: either the gigantic data structure built is assumed to fit in main memory, or the recursive mining process is too voracious in memory resources. Another major impediment is the repetitive and interactive nature of any knowledge discovery process. To tune parameters, many runs of the same algorithms are necessary leading to the building ...

Keywords: COFI-tree, association rules, frequent patterns mining, inverted matrix

63   ▬
Watermarking relational data: framework, algorithms and analysis

Rakesh Agrawal, Peter J. Haas, Jerry Kiernan
August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(223.17 KB)   Additional Information: full citation, abstract, citings, index terms

Abstract.We enunciate the need for watermarking database relations to deter data piracy, identify the characteristics of relational data that pose unique challenges for watermarking, and delineate desirable properties of a watermarking system for relational data. We then present an effective watermarking technique geared for relational data. This technique ensures that some bit positions of some of the attributes of some of the tuples contain specific values. The specific bit locations and value ...

Keywords: Database, Information hiding, Steganography, Watermarking

64 Tools and techniques for large scale grading using Web-based commercial off-the-shelf software

Robert N. Lass, Christopher D. Cera, Nathaniel T. Bomberger, Bruce Char, Jeffrey L. Popyack, Nira Herrmann, Paul Zoski
June 2003 **ACM SIGCSE Bulletin , Proceedings of the 8th annual conference on Innovation and technology in computer science education ITiCSE '03**, Volume 35 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(363.14 KB)   Additional Information: full citation, abstract, references, citings, index terms

Courseware/Course Management Systems (CMS) such as WebCT or Blackboard are an increasingly popular way to provide a web presence for a course. However, their current web-browser reliance makes it difficult for them to provide functionality that could be useful to computer science instructors. This paper describes our augmentation of a CMS in a large introductory computer science class. It further describes our enhancement of the CMS by clientside software (i.e. residing on the graders computer), ...

Keywords: Course Management Systems, Courseware, WebCT, electronic pen-based markup, introductory programming, plagiarism detection

65 Data integration and sharing II: Scientific data repositories: designing for a moving target

Etzard Stolte, Christoph von Praun, Gustavo Alonso, Thomas Gross
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**
Publisher: ACM Press

Full text available: 📄 pdf(739.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

Managing scientific data warehouses requires constant adaptations to cope with changes in processing algorithms, computing environments, database schemas, and usage patterns. We have faced this challenge in the RHESSI Experimental Data Center (HEDC), a datacenter for the RHESSI NASA spacecraft. In this paper we describe our experience in developing HEDC and discuss in detail the design choices made. To successfully accommodate typical adaptations encountered in scientific data management systems ...

66 An information-theoretic approach to normal forms for relational and XML data

Marcelo Arenas, Leonid Libkin
June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '03**

Publisher: ACM Press

Full text available: pdf(309.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

Normalization as a way of producing good database designs is a well-understood topic. However, the same problem of distinguishing well-designed databases from poorly designed ones arises in other data models, in particular, XML. While in the relational world the criteria for being well-designed are usually very intuitive and clear to state, they become more obscure when one moves to more complex data models.Our goal is to provide a set of tools for testing when a condition on a database design, ...

67 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining
Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2
Publisher: ACM Press

Full text available: pdf(341.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

68 New products
Linux Journal Staff
February 2003 **Linux Journal**, Volume 2003 Issue 106
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(7.30 KB)   Additional Information: full citation, index terms

69 Oracle's technology for bioinformatics and future directions
Bruce Blackwell, Siva Ravada
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 APBC '03**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(74.48 KB)   Additional Information: full citation, abstract, references, index terms

The Oracle relational database management system, with object-oriented extensions and numerous application-driven enhancements, plays a critical role worldwide in managing the exploding volumes of bioinformatics data. There are many features of the Oracle product which support the bioinformatics community directly already and there are several features that could be exploited more thoroughly by users, service vendors, and Oracle itself to extend that level of support. This paper will present an ...

Keywords: bioinformatics, database, extensibility, oracle

70 Cluster resource management: An integrated experimental environment for distributed systems and networks

Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler, Chad Barb, Abhijeet Joglekar
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: pdf(2.10 MB)   Additional Information: full citation, abstract, references, index terms

> Three experimental environments traditionally support network and distributed systems research: network emulators, network simulators, and live networks. The continued use of multiple approaches highlights both the value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approaches, allowing researchers to configure and access networks composed of emulated, simulated, and wide-area nodes and links. Netbed's primary goals are *ease* ...

71 Giggle: a framework for constructing scalable replica location services
Ann Chervenak, Ewa Deelman, Ian Foster, Leanne Guy, Wolfgang Hoschek, Adriana Iamnitchi, Carl Kesselman, Peter Kunszt, Matei Ripeanu, Bob Schwartzkopf, Heinz Stockinger, Kurt Stockinger, Brian Tierney
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**
Publisher: IEEE Computer Society Press
Full text available: pdf(277.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

> In wide area computing systems, it is often desirable to create remote read-only copies (replicas) of files. Replication can be used to reduce access latency, improve data locality, and/or increase robustness, scalability and performance for distributed applications. We define a replica location service (RLS) as a system that maintains and provides access to information about the physical locations of copies. An RLS typically functions as one component of a data grid architecture. This paper mak ...

72 Applications: Achieving interoperability for integration of heterogeneous COTS geographic information systems
Shengru Tu, Liang Xu, Mahdi Abdelguerfi, Jay J. Ratcliff
November 2002 **Proceedings of the 10th ACM international symposium on Advances in geographic information systems GIS '02**
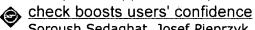**Publisher:** ACM Press
Full text available: pdf(105.88 KB)   Additional Information: full citation, abstract, references, index terms

> Using multiple commercial off-the-shelf (COTS) GIS suites is a common phenomenon, because different COTS products often have different strengths in various applications. On the other hand, deploying heterogeneous GIS software has the tendency to form fragmented data sets and to cause inconsistency. Data consolidation is an effective way to preserve data integrity. To accomplish this, we must achieve interoperability between different GIS tools. While vector spatial data have the standard databas ...

> **Keywords:** COTS-based systems, GIS, J2EE, interoperability, system integration

73 Computer-supported cooperative work in design: On-the-fly web content integrity check boosts users' confidence
Soroush Sedaghat, Josef Pieprzyk, Ehsan Vossough
November 2002 **Communications of the ACM**, Volume 45 Issue 11
Publisher: ACM Press
Full text available: pdf(182.67 KB)   Additional Information: full citation, abstract, references, index terms
html(25.45 KB)

> Malicious attacks on Web servers by intruders and hackers are prime concerns of

organizations, administrators of Web sites, as well as users who access them.

74 Industry perspectives: Toward autonomic computing with DB2 universal database

Sam S. Lightstone, Guy Lohman, Danny Zilio
September 2002 **ACM SIGMOD Record**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(785.28 KB)   Additional Information: full citation, abstract, references, citings

> As the cost of both hardware and software falls due to technological advancements and
> economies of scale, the cost of ownership for database applications is increasingly
> dominated by the cost of people to manage them. Databases are growing rapidly in scale
> and complexity, while skilled database administrators (DBAs) are becoming rarer and
> more expensive. This paper describes the self-managing or autonomic technology in IBM's
> DB2 Universal Database® for UNIX and Windows to illustrate how self ...

75 Watermarking relational databases

Rakesh Agrawal, Jerry Kiernan
August 2002 **Proceedings of the 28th international conference on Very Large Data
Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment
Full text available: pdf(208.56 KB)   Additional Information: full citation, abstract, references, index terms

> We enunciate the need for watermarking database relations to deter their piracy, identify
> the unique characteristics of relational data which pose new challenges for watermarking,
> and provide desirable properties of a watermarking system for relational data. A
> watermark can be applied to any database relation having attributes which are such that
> changes in a few of their values do not affect the applications.
>
> We then present an effective watermarking technique geared for relational da ...

76 DTD-directed publishing with attribute translation grammars

Michael Benedikt, Chee Yong Chan, Wenfei Fan, Rajeev Rastogi, Shihui Zheng, Aoying Zhou
August 2002 **Proceedings of the 28th international conference on Very Large Data
Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment
Full text available: pdf(213.54 KB)   Additional Information: full citation, abstract, references, index terms

> We present a framework for publishing relational data in XML with respect to a fixed DTD.
> In data exchange on the Web, XML views of relational data are typically required to
> conform to a predefined DTD. The presence of recursion in a DTD as well as non-
> determinism makes it challenging to generate DTD-directed, efficient transformations.
> Our framework provides a language for defining views that are guaranteed to be DTD-
> conformant, as well as middleware for evaluating these views. It is based o ...

77 First European workshop on XML and knowledge management best papers:
Knowledge management and XML: derivation of synthetic views over semi-structured
data

Mario Cannataro, Antonella Guzzo, Andrea Pugliese
April 2002 **ACM SIGAPP Applied Computing Review**, Volume 10 Issue 1
Publisher: ACM Press
Full text available: pdf(126.01 KB)   Additional Information: full citation, abstract, references, citings, index
terms

> One of the effects of the expansion of the World Wide Web is the production of a huge
> amount of data, differentiated for type, available to a large number of different users.
> Furthermore, the constant progress of computer hardware technology in the past three

decades has led to the availability of powerful computers, data collection equipments, and storage media; this technology provides a great boost to the database and information industry by allowing transaction management, informa ...

Keywords: XML, data synthesization, lossy compression

78 Database and digital library technologies: DANA (Digital Archive Network for Anthropology): a model for digital archiving
Jeffrey T. Clark, Brian M. Slator, Aaron Bergstrom, Francis Larson, Richard Frovarp, James E. Landrum, William Perrizo, William Jockheck
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press
Full text available: pdf(571.92 KB)   Additional Information: full citation, abstract, index terms

This is a report of work on an internet-based digital library called the Digital Archive Network for Anthropology (DANA). DANA provides a model for a generalized method for implementing digital archives. This federation of databases will link researchers, students, and the general public to distributed databases that include realistic, accurate, three-dimensional (3D), visual representations of artifacts, fossils, and other objects, along with 2D digitized documents (e.g., maps, plan views, exca ...

Keywords: Digital Archive Network

79 Data collections and MM: 3D MURALE: multimedia database system architecture
Edward Grabczewski, John Cosmas, Peter Van Santen, Damian Green, Takebumi Itagaki, Fred Weimer
November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage VAST '01**
Publisher: ACM Press
Full text available: pdf(169.47 KB)   Additional Information: full citation, abstract, references, index terms

Archaeological databases are required to store a wide range of data about archaeological objects. Multimedia, spatial and temporal requirements are placing new demands on these databases. Virtual models of archaeological sites require new storage and search facilities, including searching of 3D graphics for virtual and physical restoration of archaeological finds. We examine the architecture, design philosophy and proposed implementation of the 3D MURALE multimedia database, which will be used b ...

Keywords: archaeology, multimedia Databases, photogrammetry, virtual Reality

80 Managing periodically updated data in relational databases: a stochastic modeling approach
Avigdor Gal, Jonathan Eckstein
November 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 6
Publisher: ACM Press
Full text available: pdf(466.73 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recent trends in information management involve the periodic transcription of data onto secondary devices in a networked environment, and the proper scheduling of these transcriptions is critical for efficient data management. To assist in the scheduling process, we are interested in modeling *data obsolescence*, that is, the reduction of consistency over time between a relation and its replica. The modeling is based on techniques from the field of stochastic processes, and provides several ...

Keywords: Data obsolescence, database replication management, obsolescence cost, stochastic modeling